A.N.A.R.T.S. News Bulletin 1344 for 17th April 2005.

Col's Column

Early Electrical Communication.

The Relay,

Davy wrote to J. J. Fahie, the author of 'A History of Electric Telegraphy', in 1883, in which he describes an experiment he made that was similar to that performed by Cooke.

He wrote 'I procured access to the private part of Regents Park and laid down a mile of copper wire on the ground without any insulation. I of course, found that the magnetic power was so much reduced by the length of the wire that there might be difficulty at great distances in working the contrivance I had in view for marking down signals. it then occurred to me that the smallest motion (In a hairs breadth) of the needle would suffice to bring into contact two metallic surfaces so as to establish a new circuit, dependent on a local battery, and so on ad infinitum'.

He continued 'In Cooke and Wheatstones first patent there is a proposal to produce a powerful alarum, by striking a bell through the intervention of a local battery, but not a word about any renewer. or relay, as applicable to general electric telegraphy. The relay was equally new to Mr. Morse, and was subsidiary, if not essential, to his admirable method of dots and dashes. On the occasion of my opposing his application for an English patent in 1838, the Solicitor-General told me that he (Morse) had then no idea of the relay. The principle of the relay rendered demonstrably practical the system of overland communication by electricity over unlimited distances'.

It is clear that Fahie was correct in giving the credit for the invention of the relay, and also for the actual word 'Relay' which was an alternative to his use of the word 'Renewer'.

Morse brought the relay into general use in 1844 but there are no records of him knowing about it in 1838.

It appears that Cooke, Wheatstone, Henry, Davy and Morse all invented or discovered the relay independently but no for the same reasons. Henry used it to show that a small amount of current could 'Trigger' a larger current. Cooke and Wheatstone used it to trigger their alarm system on their telegraph and Morse used it to close a local circuit at the end of a long line by and electromagnet connected to line. This brought into use the idea of a relay of magnets whose task it was to send signals over many short lines this making them into one very long line.

Davy gave up his experiments in England and migrated to Australia, took up residence in Melbourne where he practices as a doctor and carried out investigations

into Botany. He held the post of Superintendent of the Melbourne Assay Office. He never experimented with the telegraph again and sold his patents for six hundred pounds.

Next week - a dispute between Cooke and Wheatstone.

73's Col VK2CTD.

IPS Weekly Solar and Geophysical Report 8/14th Apr

SUMMARY

Date	08	09	10	11	12	13	14
10cm flux	88	88	88	88	85	84	85
AFr index	2	2	2	6	23	18	20 est
Aaus index	2	2	1	6	16	24	16 est
T index	46	42	53	46	70	50	26

Solar flare activity was very low all week.

Geomagnetic activity observed for the Australian Region was quiet on 8/0th quiet to unsettled on 11/12th quiet to minor storm on 13th and quiet to active with isolated minor storm periods at some locations.

Southern Australian Ionospheric F2 critical frequencies were near predicted on 8th and 11th mostly near predicted on 9th and 13th near predicted to 20 percent enhanced on 10th enhanced 25 percent on 12th and depressed 25 to 20 percent on 14th.

Forecast for 15/21st Apr

Solar activity should very low to low.

Geomagnetic activity should be mostly quiet. Unsettled and isolated active intervals are possible on 15th and 21st April.

Frequencies should be mostly near predicted monthly values in most regions with some possibility of minor to mild depressions on high latitudes on 15th 16th and 21st Apr. No Short wave Fadeouts are expected.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES WEEK ENDING 14 APR

This week our information came from AA5AU GU0SUP I1JQJ (425DX), I5FLN and the Central Europe clusternode DB0SPC.
Thank you all.

Friday 8
0110-14084 HI8NMA
0453-14085 ZL2AUB

0518-14085 ZL4AD
0641-14087 CE3CDV
0655-14082 VK2KM
0840-18102 A25/DM2AYO
0942-21080 XX9TSC
1141-21080 JT1CO
1209-14086 YK1AO
1218-14088 VR2XLN
1229-14080 JT1CO
1417-24920 CP6/DF9GR via homecall
1434-21081 A25/DM2AYO
1451-21087 YC1KKK
1526-24923 V51AS
1626-14088 4S7AB
1646-14085 HS0ZEE
1727-10140 SV9FBK
1817-14088 VR2XLN
1904-21087 LU6DAT
2018-14082 T95DKA
2220-10145 CP6/DF9GR
2234-10140 A25/DM2AYO
2246-10144 PT7AZ
2308-10142 VR2BG
2324--7036 TF3GC

Saturday 9
0115-10138 PT7AZ
0310-21082 BW3/JD1BKQ
0635-14081 A25/DM2AYO
0746-14082 CE3CDV
0936-21083 XX9BB
0939-24908 SU1SK
0954-18103 ER1RR
1042-21080 VR2XLN
1107-21082 FR5AB
1127-24923 V51AS
1205-21082 OD5PL
1251-21084 EK8ZZ
1256-28081 A25/DM2AYO
1300-21084 4K6DI
1339-21088 9V1UV
1349-24920 A25/DM2AYO
1431-24924 V51AS
1542-14082 GD0TEP
1601-14080 HV0HQ real?
1619-21081 A25/DM2AYO
1646-21080 A61AS
1651-21086 7X0AD
1815-14081 HS0ZEE
1858-14083 EA9IB
1903-18105 CP6/DF9GR
1922-18103 FM5JC
1936-18101 VK9NS
1958-14091 CU3FQ
2029-14081 CO1RG
2210--7040 CU3AA
2245-14083 3XY6A
2339-14084 CN8KD

Sunday 10
0128-14085 EY8MM
0826-14083 3XY6A
0935-21081 FR5AB

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0947-21080 XX9TSC
0957-21084 V51AS
1019-24921 A25/DM2AYO
1035-24920 V51AS
1046-21083 3XY6A
1239-18103 EY8CQ
1301-21088 EW3BF
1330-18108 SU1SK
1414-21085 9V1UV
1435-21087 V51AS
1508-21085 GD0TEP
1605-14096 OX3HX
1611-14092 NL7V
1644-21083 3XY6A
1711-21082 7X0AD
1909-14081 TA4EB
1941-21090 CP6/DF9GR
2013-14082 EA9IB
2033-14087 HR1RMG
2109-14082 KL7IWC
2218-14090 YV5KAJ
2226-14087 CO1RG
2354-14083 HK4OQI
2355-14086 CE6ABC

Monday 11
0027-14083 TF3GC
0120-14084 UK8OAR
0351-14087 CP6/DF9GR
0628-14086 OD5/SP5LKN
0940-21083 FR5AB
1130-18102 OD5/SP5LKN
1224-21086 OD5/SP5LKN
1233-14085 ER2RM
1245-14093 VR2XLN
1259-14080 HV1JP   real?
1311-21084 4S7AB
1314-21086 VQ9LA
1448-21085 CP6/DF9GR
1556-21087 V51AS
1617-14084 OX3HX
1624-21087 FM/DF5WA  via homecall
1646-21081 A25/DM2AYO
1717-18105 VQ9LA
1757-14092 TA1FA
1813-14086 EX8AB
1816-18102 SU1SK
1918-14086 YV5ANF
2222-14087 CU3AA
2326--7037 PT7AZ

Tuesday 12
0318-14081 4K5D    via K2PF
1449-14085 OX3HX
1500-14080 4S7AB
1502-28081 HZ1IK   via DK7YY
1556-14090 VR2XLN
1621-14090 EX8AB
1645-24920 HZ1IK
1730-21085 CE3CDV
1832-14081 HS0ZEE
1903-18102 FM/DF5WA
1955-14081 PZ1BS
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2038-18102 PJ2MI
2335-10140 PT7AZ

Wednesday 13
0256--7041 CM2ZT
1154-14087 Z32PT
1251-21080 FR5AB
1435-14086 9M2MT
1541-14085 AP2IA
1728-14082 EK8ZZ
1834-14081 CU3BL
1923-14081 EI9EW
2305--7035 FM/DF5WA
2311-14085 CE3CDV
2354-14087 CP6/DF9GR

Thursday 14
0730--7036 FM/DF5WA
1256-18109 HZ1IK
1324-14086 UN8PIM
1536-14084 CP6/DF9GR
1555-18109 HZ1IK
1646-14082 9M2MT
1718-14080 VR2XLN
1750-14089 BD4SI
1756-14086 AP2IA
2012-21084 CP6/DF9GR

Notes of Interest

BAHAMAS - C6: C6AWF will be activated by G4WFQ Apr 15/29 on 80-10m CW/RTTY. QSL to G3SWH. Online logs at www.g4wfq.btinternet.co.uk.

NIUE - ZK2: Aki JA1KAJ will operate from Niue Apr 23 till May 8. Activity is planned on 80-10m SSB CW RTTY and SSTV. QSL via JA1KAJ.

The VK2SG RTTY DX NOTES are distributed every week via the Winlink network, and are also available on the Internet at URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty and the digital-dx reflector.

To subscribe to the digital-dx reflector, send an e-mail message to majordomo at mla.nifty.ne.jp as follows: Subject:(blank) Message Body: subscribe digital-dx

For next week's bulletin, send your bandpass and notes of interest to Don AA5AU email aa5au at bellsouth.net

Goetz Linss DJ3IW

The Ohio/Penn DX Bulletin No. 705 -- excerpts

3A, MONACO (Special Event)
Look for members of the Council of Europe Radio Amateur Club (CERAC) and the Amateur Radio Association of Monaco (ARAM) to be active as 3A0CE between May 4-8th. Activity is to celebrate the Council of Europe's anniversary, as

well as the admission of Monaco as the 46th member of
State in the Council of Europe. QSL via F5LGF.

C6, BAHAMAS
Duncan EA5ON will once again be active from Freeport as
GM7CXM/C6A. Expected dates are from May 26-30th. As in
previous years this will be a business trip. However
Duncan hopes to be fairly active on 80-10 meters, mostly
on SSB but also some digitals. He may also try to
participate in the CQWW WPX CW Contest. The IOTA reference
is NA-080 (Grand Bahama Island). QSL via EA7JX.

FM, MARTINIQUE
Operators Berthold/DF5WA and Gunter/DF7GB are expected to
be active now as homecalls/FM. Their length of stay is
unknown. No QSNs have been reported as this was being
typed. Their expected activity is to be on all HF bands,
and possibly 160 meters if the location is suitable,
using mostly CW but also some SSB RTTY and PSK31. QSL to
their home callsigns.

HB0, LIECHTENSTEIN (Update)
Some members of the Radio Club Tivadar Puskas (HA5KHC) will
once again go here for a week between May 14-21st. Their QTH
will be at Chalet Wanni (JN47SD), Masescha 1350m ASL. The
operators are: Laci/HA5MA Pisti/HA5OJ Ed/HA5BWW Karl/HA7PC.
Operators will sign HB0/homecall. Their equipment: FT-990
+- 400 watts PA, FT-1000MP MARK V., dipoles for 160 and 80m
and verticals for 40-10m including the WARC bands, too.
On 2m they will try to do something with a FT-100 and an
IC-271+-1 kW PA and 9 el Yagi. (maybe some WSJT will do too)
All QSLs can go to the operators' home addresses or via the
HA QSL Bureau.

IOTA NEWS

EU-008. Members of the South Chesire ARS will be active as
GM6TW from the Isle of Jura (IOSA NH-21 and SCOTIA CS-28),
Apr 16-23. Operators mentioned are: Pete/G4RRM Chris/G0RDK
Ken/M0DQS and Geoff/2E0UNI. Activity will on 160-20m CW SSB
and some digital modes. The main frequency will be 14260kHz.
Other suggested frequencies are
SSB - 28560 28460 24950 21260 18128 7055 and 3755kHz
 CW - 28040 24920 21040 18098 14040 10115 and 3530kHz
No specific frequency has been announced for 40 meters CW
but it is recommended that operations should include a
frequency above 7025kHz where the band is open to North
America. QSL via G0UZP (QRZ.com).

EU-056. Operators Trond/LA9VDA Bjorn/LA5UKA and Andreas/
LA8AJA will be active from Gossen Island Apr 15-18. Activity
will be on 80-15m CW and SSB with some RTTY.
QSL via (QRZ.com).

EU-070. Operators Laurent/F5MNK Eric/F5LOW Fabrice/F5NBQ
Jacky/F5OIU Bertrand/F6HKA Jean Philippe/F4EEK and Christian
/F1SDQ will be active as TM0L from Levant Island (DIFM ME-12)
May 21-28. Activity will be on 160-2 meters on
CW/SSB/RTTY/PSK31. QSL via F5OIU.

SPECIAL EVENT
Special event station LZ8IARU will be active on all bands
and modes between now and Dec 31 to commemorate the 80th

anniversary of IARU. Over the past week activity has been
on 20 and 30m CW. QSL via bureau to LZ1BJ.

SPECIAL EVENT
Industry Canada has issued an authorization to Bob Cooke
VE3BDB to operate May 7-14 inclusive, using the special
event callsign CF3VEDAY. The authorization is to mark the
opening of the new Canadian War Museum on May 8, a date
that coincides with the 60th anniversary of VE-DAY, which
ended World War Two in Europe. The special callsign is
historic in that this is the first time that an Amateur
Radio callsign having a five-letter suffix has been issued
in Canada. VE3BDB and other members of The Wireless Set No.
19 Group will alternate modern equipment with vintage WW II
era military radios during the seven-day operation.
Full information can be viewed on-line at:
http://www.qsl.net/cf3veday

TARA SKIRMISH (Digital Prefix Contest)
Bill NY2U President of the Troy ARA wants to remind everyone
that the TARA Skirmish is coming up on Apr 16 between
0000-2400z. The particulars are as follows:
Frequencies: 160-6m work stations once per band.
Categories : High, Low (less than 100w), Great (less than
20w), QRP (less than 5w) and SWL.
Exchange: Name and Prefix.
Score: QSOs x WPX prefixes x power multiplier. (High x0.5,
Low x1, Great x2 and QRP x3) Multipliers count once per band.
For more information:
http://www.n2ty.org/seasons/tara.dpx.rules.html or send
E-mail to skirmish-manager at n2ty.org

The Society can be contacted in the following ways:
To Pat VK2JPA via vk2jpa at wia.org.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN